



FEATURES

- High Gain
- Low VSWR
- Linear Polarization, Adjustable

STANDARD COMPONENTS

- ANT-PBR Focused and Aligned Parabolic Reflector and Waveguide Feed
- User Manual

AVAILABLE ADD-ONS

- Mounting Hardware and Accessories available upon request
- Coax-to-Waveguide Adapters

DESCRIPTION

NSI-MI Technologies' Family of Focused and Aligned Parabolic Reflectors and Waveguide Feeds are linearly polarized feeds covering the frequency range of 1.7 GHz to 40 GHz. Each product in this family consists of a weather sealed waveguide horn with a radome cover. The feed terminating connectors are shown in the Table of Specifications to the right. To minimize aperture blocking, feeds for the reflector are supported beside the reflector, with the waveguide passing around the reflector's edge. Our Coax-to-Waveguide Adapters may be used to provide a coaxial cable input to the waveguide.



NSI-MI's Parabolic Reflectors features optimum side-lobe bandwidth characteristics, high gain and waveguide band frequency coverage when used with a variety of interchangeable feeds.

PARABOLIC REFLECTOR SPECIFICATIONS

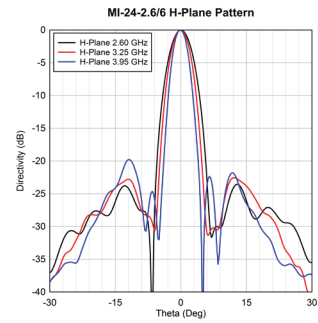
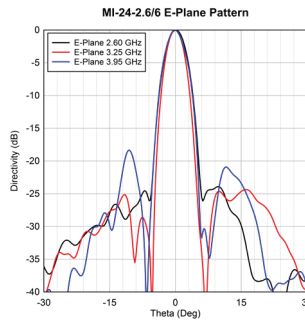
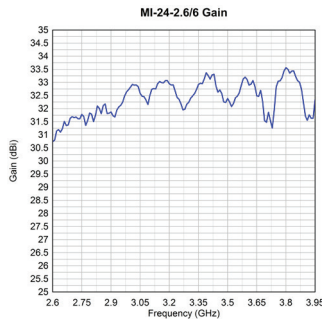
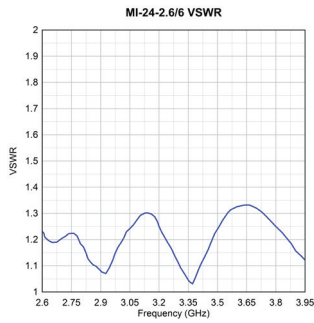
Model	Diameter ft (m)	F/D	Wind Load lbs (kg)	Material	Weight lbs (kg)
ANT-PBR-22A-1	1 (0.3)	0.375	10 (4)	Aluminum	8 (3.6)
ANT-PBR-22A-2	2 (0.6)	0.375	39 (18)	Aluminum	12 (5.45)
ANT-PBR-22-4A	4 (1.2)	0.375	156 (71)	Aluminum	46 (20.9)
ANT-PBR-22-6C	6 (1.8)	0.400	351 (160)	Aluminum	80 (36.4)
ANT-PBR-22-8B	8 (2.4)	0.373	625 (284)	Aluminum	175 (79.5)

NSI-MI's Family of Waveguide Feeds are linearly polarized pyramidal horns. Each feed includes a radome cover for outdoor weather conditions. Our Waveguide Feeds covers frequency ranges from 1.7 GHz to 40 GHz. These feeds are designed to be used with our ANT-PBR Family of Parabolic Reflectors.



WAVEGUIDE FEED SPECIFICATIONS

Model	Frequency Range (GHz)	Feed Aperture Dimensions in. (cm)	Power Handling (W)	Mechanical Flange
ANT-PBR-23-1.7	1.7-2.6	6.8 X 5.2 (17.3 X 13.2)	15 kW	RG-105/U
ANT-PBR-23-2.6	2.6-3.95	4.5 X 3.3 (11.4 X 8.4)	90 W	Type N/RG-214
ANT-PBR-23-2.6	2.6-3.95	4.5 X 3.3 (11.4 X 8.4)	10 kW	RG-75/U 6061
ANT-PBR-23-3.9	3.95-5.85	3.0 X 2.2 (7.6 X 5.6)	4 kW	RG-95/U
ANT-PBR-23-3.9	3.95-5.85	3.0 X 2.2 (7.6 X 5.6)	4 kW	RG-95/U 6061
ANT-PBR-23-5.8	5.85-8.2	2.11 X 1.55 (5.4 X 3.9)	1.5 kW	RG-106/U
ANT-PBR-23-5.8	5.85-8.2	2.11 X 1.55 (5.4 X 3.9)	1.5 kW	RG-106/U 6061
ANT-PBR-23-8.2	8.2-12.4	1.46 X 1.07 (3.7 X 2.7)	0.7 kW	RG-67/U
ANT-PBR-23-8.2	8.2-12.4	1.46 X 1.07 (3.7 X 2.7)	0.7 kW	RG-67/U
ANT-PBR-23-8.2	8.2-12.4	1.46 X 1.07 (3.7 X 2.7)	0.7 kW	RG-57/U 6061
ANT-PBR-23-12	12.4-18.0	0.97 X 0.71 (2.5 X 1.8)	0.4 kW	RG-91/U
ANT-PBR-23-12	12.4-18.0	0.97 X 0.71 (2.5 X 1.8)	0.4 kW	RG-91/U
ANT-PBR-23-12	12.4-18.0	0.97 X 0.71 (2.5 X 1.8)	0.4 kW	RG-91/U
ANT-PBR-23-18	18.0-26.5	0.66 X 0.48 (1.7 X 1.2)	0.14 kW	RG-53/U
ANT-PBR-23-26	26.5-40.0	0.43 X 0.03 (1.1 X 0.08)	0.09 kW	RG-271



SPECIFICATIONS

Model	Frequency Range (GHz)	Reflector Diameter ft (cm)	Nominal Gain (dB)	Nominal Beamwidth (deg)	Maximum VSWR	1st Side Lobe Suppression (dB)	Feed Connector Type or Equivalent
ANT-PBR-24-1.7/8	1.70-2.60	8 (244)	31	4.6	1.5	18	UG-437/U
ANT-PBR-24-2.6/8	2.60-3.95	8 (244)	35	3.1	1.5	18	UG-584/U
ANT-PBR-24-2.6/6	2.60-3.95	6 (183)	32	4.0	2.0	18	Type N, Female
ANT-PBR-24-3.9/8	3.95-5.85	8 (244)	39	2.1	1.5	18	UG-149/U
ANT-PBR-24-5.8/8	5.85-8.20	8 (244)	42	1.6	1.5	18	UG-441/U
ANT-PBR-24-3v.9/6	3.95-5.85	6 (183)	36	3.0	1.5	18	UG-149/U
ANT-PBR-24-5.8/6	5.85-8.20	6 (183)	39	2.0	1.5	18	UG-441/U
ANT-PBR-24-8.2/6	8.20-12.4	6 (183)	42	1.5	1.5	18	UG-135/U
ANT-PBR-24-2.6/4	2.60-3.95	4 (122)	29	6.0	2.0	18	Type N, Female
ANT-PBR-24-3.9/4	3.95-5.85	4 (122)	32	4.0	1.5	18	UG-149/U
ANT-PBR-24-5.8/4	5.85-8.20	4 (122)	35	3.0	1.5	18	UG-441/U
ANT-PBR-24-8.2/4	8.20-12.4	4 (122)	39	2.0	1.5	18	UG-135/U
ANT-PBR-24-12/4	12.4-18.0	4 (122)	42	1.5	1.5	18	UG-419/U
ANT-PBR-24-8.2/2	8.20-12.4	2 (61)	33	4.0	1.5	15	UG-135/U
ANT-PBR-24-12/2	12.4-18.0	2 (61)	36	3.0	1.5	15	UG-419/U
ANT-PBR-24-12/1	12.4-18.0	1 (30.5)	30	5.0	1.5	18	UG-419/U
ANT-PBR-24-18/1	18.0-26.5	1 (30.5)	33	4.0	1.5	15	UG-595/U
ANT-PBR-24-26/1	26.5-40.0	1 (30.5)	36	2.5	1.5	15	UG-599/U

OUR ANTENNAS ARE PRECISELY ENGINEERED AND TESTED FOR IMPECCABLE PERFORMANCE.